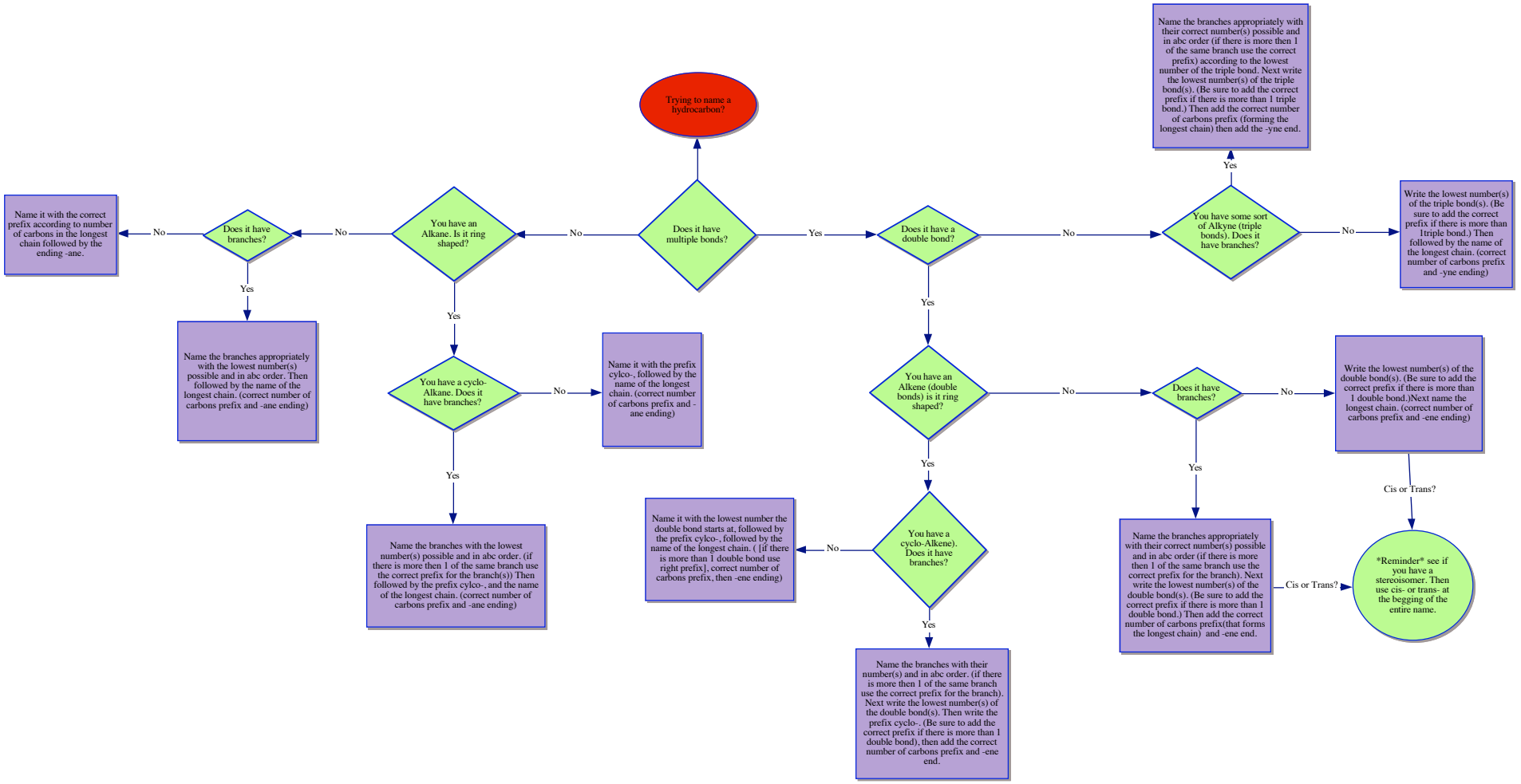
Trying to name a hydrocarbon?
Does it have multiple bonds?
Yes
No
Does it have a double bond?
Yes
No
You have some sort of Alkyne (triple bonds). Does it have branches?
Yes
No
Name the branches appropriately with their correct number(s) possible and in abc order (if there is more then 1 of the same branch use the correct prefix) according to the lowest number of the triple bond. Next write the lowest number(s) of the triple bond(s). (Be sure to add the correct prefix if there is more than 1 triple bond.) Then add the correct number of carbons prefix (forming the longest chain) then add the -yne end.
Write the lowest number(s) of the triple bond(s). (Be sure to add the correct prefix if there is more than 1triple bond.) Then followed by the name of the longest chain. (correct number of carbons prefix and -yne ending)
You have an Alkene (double bonds) is it ring shaped?
Yes
No
Does it have branches?
Yes
No
Write the lowest number(s) of the double bond(s). (Be sure to add the correct prefix if there is more than 1 double bond.)Next name the longest chain. (correct number of carbons prefix and -ene ending)
Cis or Trans?
Reminder see if you have a stereoisomer. Then use cis- or trans- at the begging of the entire name.
Name the branches appropriately with their correct number(s) possible and in abc order (if there is more then 1 of the same branch use the correct prefix for the branch). Next write the lowest number(s) of the double bond(s). (Be sure to add the correct prefix if there is more than 1 double bond.) Then add the correct number of carbons prefix(that forms the longest chain) and -ene end.
Cis or Trans?
You have a cyclo-Alkene). Does it have branches?
Yes
No
Name it with the lowest number the double bond starts at, followed by the prefix cylco-, followed by the name of the longest chain. ([if there is more than 1 double bond use right prefix], correct number of carbons prefix, then -ene ending)
Name the branches with their number(s) and in abc order. (if there is more then 1 of the same branch use the correct prefix for the branch). Next write the lowest number(s) of the double bond(s). Then write the prefix cyclo-, (Be sure to add the correct prefix if there is more than 1 double bond), then add the correct number of carbons prefix and -ene end.
You have an Alkane. Is it ring shaped?
Yes
No
You have a cyclo-Alkane. Does it have branches?
Yes
No
Name it with the prefix cylco-, followed by the name of the longest chain. (correct number of carbons prefix and -ane ending)
Name the branches with the lowest number(s) possible and in abc order. (if there is more then 1 of the same branch use the correct prefix for the branch(s)) Then followed by the prefix cylco-, and the name of the longest chain. (correct number of carbons prefix and -ane ending)
Does it have branches?
Yes
No
Name the branches appropriately with the lowest number(s) possible and in abc order. Then followed by the name of the longest chain. (correct number of carbons prefix and -ane ending)
Name it with the correct prefix according to number of carbons in the longest chain followed by the ending -ane.